**Module 4 Question bank**

1. Discuss the following Dictionary methods in Python with examples. (i) get() (ii) items() (iii) keys() (iv) values()
2. What is a dictionary? How it is different from List? Write a program to count the number of occurrences of characters in a string
3. **Discuss how nested dictionaries and lists can be used in Python.** Illustrate with an example.
4. **Implement a simple Tic-Tac-Toe board using a dictionary.** Write a program to initialize the board, take player input, and print the board after each move.
5. **Explain string slicing in Python** with an example. Show how slicing does not modify the original string.
6. Using string slicing operation write python program to reverse each word in a given string (eg: input: “hello how are you”, output: “olleh woh era uoy”)
7. Demonstrate with example of upper(), lower(), islower() and isupper(), String Methods
8. write a python program to read dictionary data and delete any given key entry in the dictionary.
9. **Write a Python program that uses** startswith() **and** endswith() **methods** to check a string's prefix and suffix.
10. **Demonstrate how to use the** partition() **method** in strings. Show at least two examples including one where the separator doesn't exist.
11. Explain the various string methods for the following operations with examples. (i) Removing whitespace characters from the beginning, end or both sides of a string. (ii) To right-justify, left-justify, and center a string.
12. **What are escape characters in strings?** Write a program that uses both single and double quotes inside the same string using escape characters.
13. **Develop a Python code to determine whether the given string is a palindrome or not a palindrome**
14. Explain with examples: (i)isalpha (ii)isalnum (iii)isspace (iv)istitle
15. **Develop a Python Program to swap cases of a given string**

Input:Java

Output:jAVA